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1977 MONTANA COMMERCIAL FERTILIZER REPORT

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VOLUME 24, 1977

W. Gordon McOmber
Director of Agriculture
State of Montana
Helena, Montana 59601

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COMMERCIAL FERTILIZER REPORT

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THE DEPARTMENT OF AGRICULTURE, STATE OF MONTANA, HELENA, MONTANA

AND

THE AGRICULTURE EXPERIMENT STATION, MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Agriculture Management Services 2222 North River Drive Great Falls, Montana 59401								
11-55-0	Great Falls	3911	11	11.6	55	55		
Blend	Great Falls	3912	12.6	12.4	25	27.2	10.9	12.3
Agro Supply P.O. Box 20256 Billings, Montana 59101								
18-46-0	Laurel	3855	18	16.8	46	46.1		
34-0-0	Laurel	3853	34	33.7				
Allen Mines Canada								
0-0-60	Stevensville	3826					60	58.4
Amax Corporation 35 Mason Street Greenwich, Colorado 06830								
0-0-60	Miles City	3792					60	59.8
0-0-60	Miles City	3755					60	59.2
American Colloid								
0-0-60	Red Lodge	3730					60	61.6
Beker Industries 124 West Putnam Avenue Greenwich, Connecticut 06830								
18-46-0	Belgrade	3690	18	17.7	46	45.8		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF COMPANY	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Bigthan Fertilizer Box 1455 Miles City, Montana 59301								
0-0-60	Miles City	3888					60	60.0
0-46-0	Miles City	3889			46	46.2		
Big Sand Grain Big Sandy, Montana 59520								
18-46-0	Big Sandy	3751	18	18	46	46.2		
34-0-0	Big Sandy	3750	34	34				
Canadian Fertilizing, Ltd. Medicine Hat, Canada								
46-0-0	Fort Benton	3583	46	46.1				
Cargill Fort Benton, Montana 59442								
11-48-0	Fort Benton	3939	11	11.1	48	48.1		
18-46-0	Valier	3959	18	17.6	46	46.6		
Cenex Soil Service Center Harlem, Montana 59526								
0-0-60	Harlem	3746					60	59.1
0-44-0	Harlem	3749			44	44.6		
21-0-0	Harlem	3745	21	20.5				
46-0-0	Harlem	3747	46	46.1				
CF Industries Salem Lake Drive Long Grove, Illinois 60047								
0-45-0	Lewistown	3806			45	44.3		
11-55-0	Lewistown	3811	11	11.1	55	56.2		
18-46-0	Lewistown	3807	18	17.8	46	46.5		
18-46-0	Lewistown	3808	18	17.7	46	46.4		
18-46-0	Lewistown	3810	18	17.5	46	46.5		
18-46-0	Harlem	3748	18	17.4	46	46.8		
46-0-0	Lewistown	3809	46	45.5				
Chevron Chemical 940 Hensley Street Richmond, California 94802								
0-0-60	Hamilton	3733					60	62.4
Ortho Fish Emulsion	Bozeman	3769	5	5.3	1	1.4	1	1.0

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Chevron Chemical (cont...)								
House Plant Food	Bozeman	3767	5	5.2	10	11.3	5	5.0
Ortho Up-Start	Bozeman	3766	5	4.7	15	15.3	5	5.0
Tomato Food-0	Bozeman	3763	5	5.1	10	10.0	10	10.2
Tomato & Veg.	Bozeman	3764	6	6.0	18	19.6	6	5.7
Ortho Gen. Purpose Plant Food	Bozeman	3762	8	8.0	8	8.4	8	7.3
Evergreen & Azalea	Bozeman	3765	10	10.0	8	9.1	7	7.2
11-55-0	Sheridan	3612	11	12.1	55	53.8		
11-55-0	Stevensville	3620	11	11.2	55	55.1		
11-55-0	Ronan	3649	11	12.1	55	53.4		
Blood Meal	Bozeman	3761	12	12.8				
Ortho Gro Liquid	Bozeman	3768	12	11.9	6	7.1	6	6.0
16-16-16	Ronan	3650	16	16.4	16	15.8	16	15.8
16-16-16	Ronan	3829	16	15.4	16	16.0	16	14.8
16-20-0	Hamilton	3615	16	16.2	20	20.9		
16-20-0	Stevensville	3618	16	16.3	20	20.5		
16-20-0-15S	Hamilton	3732	16	16.2	20	20.3		
18-46-0	Ronan	3651	18	18.2	46	46.7		
22-22-0	Sheridan	3614	22	22.0	22	22.2		
27-12-0	Sheridan	3613	27	27.1	12	11.4		
27-12-0	Stevensville	3619	27	26.7	12	12.0		
27-12-0	Hamilton	3617	27	26.8	12	11.6		
34-0-0	Dillon	3601	34	33.9				
34-0-0	Sheridan	3611	34	34.3				
34-0-0	Hamilton	3616	34	34.2				
34-0-0	Stevensville	3621	34	34.3				
34-0-0	Great Falls	3630	34	34.4				
34-0-0	Great Falls	3631	34	34.1				
34-0-0	Kalispell	3642	34	34.3				
34-0-0	Ronan	3648	34	34.2				
34-0-0	Hamilton	3731	34	33.1				
34-0-0	Hamilton	3735	34	33.3				
34-0-0	Fairfield	3913	34	34.0				
Clouds Peak Products, Inc. P.O. Box 937 Sheridan, Wyoming 82801								
8-16-8	Billings	3996	8	.1	16	1.9	8	.5
19-9-9	Billings	3997	19	19.1	9	13.4	9	10.5
Cominco American West 818 Riverside Avenue Spokane, Washington 99201								
0-0-60	Pendroy	3588					60	60.0
0-0-60	Stevensville	3623					60	61.2

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cominco American (Cont...)								
0-0-60	Kalispell	3647					60	61.6
0-0-60	Great Falls	3629					60	59.7
0-0-60	Reserve	3707					60	62.4
0-0-60	Glasgow	3701					60	62.0
0-0-60	Spokane						60	61.6
0-0-60	Bridger	3932					60	60.2
0-0-60	Shelby	3969					60	60.8
0-0-60	Stanford	3992					60	60.8
0-0-60	Lewistown	4009					60	60.0
0-0-60.5	Billings	3678					60.5	61.2
11-55-0	Pendroy	3589	11	11.1	55	55.2		
11-55-0	Baker	3604	11	11.2	55	55.2		
11-55-0	Kalispell	3640	11	11.5	55	55.2		
11-55-0	Fort Benton	3659	11	11.1	55	55.2		
11-55-0	Shelby	3555	11	11.6	55	55.1		
11-55-0	Fort Benton	3580	11	11.3	55	55.1		
11-55-0	Fort Benton	3582	11	11.2	55	55.2		
11-55-0	Geraldine	3662	11	11.0	55	55.2		
11-55-0	Glendive	3787	11	11.1	55	54.7		
11-55-0	Ronan	3832	11	11.1	55	56.7		
11-55-0	Laurel	3851	11	11.1	55	55.6		
11-55-0	Wilsall	3867	11	11.1	55	55.5		
11-55-0	Three Forks	3875	11	11.0	55	55.7		
11-55-0	Three Forks	3878	11	11.7	55	55.6		
11-55-0	Belgrade	3880	11	11.0	55	56.2		
11-55-0	Fairfield	3920	11	11.2	55	56.5		
11-55-0	Gildford	3973	11	11.1	55	56.9		
11-55-0	Moccasin	4012	11	10.9	55	55.4		
11-55-0	Great Falls	3627	11	11.3	55	55.1		
11-55-0	Reserve	3709	11	11.1	55	55.6		
11-55-0	Lewistown	3815	11	11.5	55	52.2		
11-55-0	Shelby	3967	11	11.4	55	55.8		
11-55-0	Stanford	3987	11	11.0	55	55.5		
11-55-0	Stanford	3989	11	11.4	55	55.6		
11-55-0	Lewistown	4008	11	11.1	55	55.9		
11-55-0	Billings	3676	11	11.3	55	55.8		
16-20-0	Hamilton	3734	16	15.6	20	20.5		
16-20-0	Roundup	3805	16	15.5	20	23.2		
16-20-0	Hamilton	3825	16	16.0	20	20.6		
16-20-0	Stevensville	3828	16	16.6	20	21.3		
16-20-0	Pendroy	3587	16	16.4	20	19.8		
16-20-0	Kalispell	3643	16	16.5	20	20.0		
16-20-0	Wilsall	3868	16	15.8	20	20.6		
16-20-0	Belgrade	3882	16	16.2	20	20.9		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Cominco American (Cont...)								
18-46-0	Kalispell	3641	18	18.4	46	46.0		
18-46-0	Roundup	3804	18	18.1	46	46.3		
18-46-0	Shelby	3964	18	17.9	46	46.5		
18-46-0	Lewistown	4007	18	17.7	46	46.3		
18-46-0	Stanford	3990	18	17.9	46	46.0		
18-46-0	Stanford	3991	18	17.6	46	46.6		
18-46-0	Lewistown	3812	18	10.8	46	52.4		
18-46-0	Lewistown	3813	18	18.0	46	46.9		
18-46-0	Reserve	3708	18	18.0	46	46.6		
18-46-0	Shelby	3559	18	18.2	46	46.1		
18-46-0	Bridger	3930	18	18.1	46	46.8		
18-46-0	Glasgow	3907	18	17.9	46	47.2		
18-46-0	Cut Bank	3957	18	19.0	46	46.5		
18-46-0	Moccasin	3985	18	18.6	46	47.3		
21-0-0	Great Falls	3628	21	21.0				
21-0-0	Lewistown	4010	21	20.5				
21-0-0	Glasgow	3699	21	21.1				
21-0-0-24S	Billings	3677	21	21.2				
29-14-0	Hamilton	3736	29	29.3	14	13.4		
34-0-0	Sidney	3891	34	34.5				
34-0-0	Ronan	3831	34	33.6				
46-0-0	Laurel	3854	46	46.6				
46-0-0	Fort Benton	3581	46	45.5				
46-0-0	Reserve	3904	46	45.6				
46-0-0	Wilsall	3869	46	45.3				
46-0-0	Reserve	3706	46	46.3				
46-0-0	Lewistown	3814	46	45.4				
46-0-0	Stanford	3988	46	45.5				
Con Agra 900 16 North Great Falls, Montana 59401								
11-48-0	Laurel	3740	11	15.8	48	47.0		
11-55-0	Great Falls	3544	11	11.3	55	55.0		
11-55-0	Laurel	3852	11	11.9	55	55.7		
18-46-0	Red Lodge	3727	18	17.4	46	46.1		
27-14-0	White Sulphur Springs	3760	27	30.5	14	8.2		
30-10-0	Laurel	3741	30	30.4	10	6.1		
34-0-0	Red Lodge	3728	34	33.6				
34-0-0	Laurel	3739	34	33.8				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
CONDA Soda Springs, Idaho 83276								
0-45-0	Stevensville	3625			45	45.4		
18-46-0	Stevensville	3827	18	17.7	46	46.8		
Environmental Management Service Great Falls, Montana 59401								
14-14-14	Great Falls	3626	14	12.8	14	18.2	14	6.6
21-0-16-6	Great Falls	3743	21	19.7			16	18.3
27-0-9-3	Great Falls	3744	27	26.7			9	9.8
Equity CoOp Brady, Montana 59416								
18-46-0	Brady	3956	18	17.8	46	46.2		
Exxon Chemical Company, U.S.A. P.O. Box 3272 Houston, Texas 77027								
0-0-60	Moore	4001					60	61.2
11-48-0	Great Falls	3637	11	11.4	48	48.0		
11-55-0	Great Falls	3636	11	11.8	55	55.1		
11-55-0	Great Falls	3821	11	11.8	55	56.0		
11-55-0	Helena	3865	11	11.7	55	55.0		
11-55-0	Moore	3654	11	11.4	55	54.9		
11-55-0	Belgrade	3688	11	12.0	55	54.8		
11-55-0	Moore	3999	11	12.1	55	55.8		
16-20-0	Missoula	3575	16	16.1	20	21.7		
16-20-0	Belgrade	3591	16	15.5	20	20.4		
16-20-0	Livingston	3983	16	15.7	20	20.8		
16-20-0	Billings	3686	16	16.0	20	21.4		
16-20-0	Laurel	3738	16	15.9	20	20.8		
16-20-0	Belgrade	3689	16	15.9	20	21.7		
16-20-0	Helena	3863	16	15.9	20	20.1		
18-46-0	Helena	3864	18	17.6	46	47.0		
18-46-0	Moore	3656	18	18.0	46	46.4		
18-46-0	Billings	3674	18	18.1	46	46.6		
18-46-0	Billings	3675	18	18.1	46	45.9		
18-46-0	Belgrade	3881	18	17.9	46	46.9		
18-46-0	Fairfield	3919	18	17.9	46	46.3		
18-46-0	Belgrade	3592	18	18.4	46	46.2		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Exxon Chemical Company, U.S.A. (Cont...)								
18-46-0	Belgrade	3593	18	18.1	46	46.9		
18-46-0	Moore	4000	18	17.7	46	46.3		
18-46-0	Great Falls	3639	18	18.3	46	46.5		
21-0-0	Great Falls	3635	21	21.4				
27-14-0	Livingston	3984	27	28.4	14	12.4		
27-14-0	Billings	3684	27	27.0	14	14.6		
27-14-0	White Sulphur Springs	3866	27	27.0	14	18.2		
34-0-0	Billings	3684	34	33.9				
34-0-0	Belgrade	3687	34	34.0				
34-0-0	Great Falls	3820	34	33.6				
34-0-0	Stevensville	3624	34	34.1				
34-0-0	Laurel	3742	34	34.1				
34-0-0	Moore	3655	34	34.1				
34-0-0	Belgrade	3998	34	33.8				
34-0-0	Billings	3679	34	34.1				
Farmers Cooperative Elevator Denton, Montana 59430								
0-0-60	Denton	4002					60	60.8
18-46-0	Denton	4003	18	17.7	46	46.1		
18-46-0	Denton	4005	18	18.0	46	46.4		
46-0-0	Denton	4004	46	45.6				
Farmers Union Central Exchange Box G St. Paul, Minnesota 55402								
0-0-60	Belgrade	3879					60	59.2
0-0-60	Chinook	3981					60	61.2
0-0-60	Valier	3947					60	60.8
0-0-60	Valier	3952					60	60.8
0-0-60	Geraldine	3938					60	60.8
0-0-60	Townsend	3872					60	59.6
0-0-60	Circle	3893					60	59.6
0-0-60	Billings	3842					60	58.2
0-0-60	Fallon	3782					60	59.8
0-0-60	Terry	3785					60	59.7
0-0-60	Townsend	3692					60	60.4
0-0-60	Fallon	3714					60	61.2
0-0-60	Worden	3682					60	60.0

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Farmers Union Central Exchange (Cont...)								
0-0-60	Richland	3703					60	60.8
0-0-60	Geraldine	3664					60	61.2
0-0-60	Terry	3610					60	60.0
0-0-60	Fort Benton	3578					60	60.0
0-0-61	Edgar	3928					61	59.8
0-44-0	Chinook	3982			44	44.3		
0-44-0	Circle	3892			44	44.2		
0-44-0	Worden	3683			44	44.5		
0-44-0	Worden	3926			44	44.2		
0-44-0	Fairfield	3921			44	44.0		
0-44-0	Belgrade	3883			44	44.7		
0-44-0	Baker	3886			44	44.3		
0-44-0	Kinsey	3789			44	44.0		
0-44-0	Circle	3753			44	44.4		
0-44-0	Kalispell	3644			44	44.1		
0-44-0	Kalispell	3645			44	44.0		
0-44-0	Circle	3574			44	44.3		
0-44-0	Scobey	3571			44	46.2		
0-44-0	Glasgow	3909			44	44.0		
11-48-0	Chester	3971	11	11.5	48	48.9		
11-48-0	Valier	3955	11	11.1	48	48.4		
11-55-0	Geraldine	3943	11	11.5	55	55.1		
11-55-0	Billings	3839	11	11.3	55	55.7		
11-55-0	Great Falls	3633	11	11.6	55	55.4		
11-55-0	Great Falls	3824	11	11.8	55	55.4		
16-20-0	Townsend	3873	16	16.2	20	19.3		
16-20-0	Chinook	3979	16	16.0	20	20.1		
16-20-0	Missoula	3795	16	19.4	20	18.1		
18-46-0	Valier	3946	18	17.9	46	46.8		
18-46-0	Missoula	3793	18	17.7	46	46.1		
18-46-0	Missoula	3794	18	17.5	46	46.1		
18-46-0	Chinook	3980	18	17.8	46	46.2		
18-46-0	Townsend	3870	18	17.5	46	46.0		
18-46-0	Great Falls	3823	18	17.9	46	46.5		
18-46-0	Great Falls	3632	18	18.1	46	45.7		
18-46-0	Billings	3837	18	18.0	46	46.0		
18-46-0	Billings	3838	18	18.0	46	46.3		
18-46-0	Billings	3840	18	18.1	46	46.2		
18-46-0	Geraldine	3936	18	17.6	46	46.4		
18-46-0	Valier	3953	18	18.0	46	46.3		
18-46-0	Townsend	3693	18	17.7	46	46.0		
18-46-0	Glasgow	3908	17	17.8	46	46.2		
18-46-0	Scobey	3572	18	18.2	46	45.5		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Farmers Union Central Exchange (Cont...)								
18-46-0	Kalispell	3646	18	18.4	46	46.1		
18-46-0	Glasgow	3752	18	17.8	46	46.6		
18-46-0	Baker	3887	18	18.2	46	46.2		
18-46-0	Worden	3681	18	18.0	46	46.7		
18-46-0	Circle	3894	18	17.8	46	46.4		
18-46-0	Worden	3923	18	17.7	46	46.1		
18-46-0	Columbus	3859	18	17.9	46	46.9		
18-46-0	Scobey	3902	18	17.5	46	46.7		
18-46-0	Richland	3899	18	18.1	46	46.1		
18-46-0	Richland	3900	18	17.8	46	46.6		
18-46-0	Kinsey	3790	18	17.8	46	46.3		
18-46-0	Plentywood	3759	18	17.7	46	46.5		
18-46-0	Malta	3696	18	18.2	46	46.3		
18-46-0	Denton	3658	18	18.1	46	46.1		
18-46-0	Fallon	3608	18	18.2	46	46.1		
18-46-0	Chester	3558	18	17.8	46	46.2		
18-46-0	Edgar	3927	18	17.9	46	46.3		
18-46-0	Fort Benton	3579	18	18.1	46	45.9		
18-46-0	Geraldine	3663	18	18.0	46	46.3		
18-46-0	Richland	3702	18	18.1	46	46.1		
18-46-0	Fallon	3713	18	18.1	46	46.1		
18-46-0	Terry	3786	18	17.8	46	46.1		
18-46-0	Fallon	3780	18	17.9	46	46.4		
18-46-0	Fallon	3781	18	17.9	46	46.2		
21-0-0	Terry	3783	21	20.8				
21-0-0	Geraldine	3941	21	20.8				
21-0-0	Billings	3836	21	20.7				
21-0-0	Geraldine	3666	21	21.3				
34-0-0	Geraldine	3665	34	34.0				
34-0-0	Billings	3841	34	33.6				
34-0-0	Geraldine	3944	34	33.5				
34-0-0	Terry	3784	34	34.1				
34-0-0	Ronan	3652	34	34.2				
34-0-0	Ronan	3653	34	34.2				
34-0-0	Worden	3680	34	34.3				
34-0-0	Kinsey	3788	34	33.7				
34-0-0	Edgar	3929	34	33.9				
34-0-0	Denton	3657	34	34.1				
34-0-0	Worden	3924	34	33.6				
34-0-0	Townsend	3695	34	34.2				
34-0-0	Chinook	3978	34	33.6				
34-0-0	Terry	3609	34	34.2				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Farmers Union Central Exchange (Cont...)								
34-0-0	Fallon	3778	34	34.4				
34-0-0	Fallon	3779	34	34.4				
46-0-0	Richland	3704	46	47.4				
46-0-0	Lewistown	4011	46	45.4				
46-0-0	Wolf Point	3570	46	47.2				
46-0-0	Townsend	3871	46	45.7				
46-0-0	Great Falls	3822	46	44.7				
46-0-0	Great Falls	3634	46	46.6				
46-0-0	Valier	3954	46	45.8				
46-0-0	Glasgow	3910	46	46.2				
46-0-0	Scobey	3573	46	46.6				
46-0-0	Circle	3754	46	45.8				
46-0-0	Circle	3895	46	45.7				
46-0-0	Scobey	3903	46	45.7				
46-0-0	Richland	3901	46	45.6				
46-0-0	Plentywood	3758	46	45.6				
46-0-0	Malta	3697	46	46.8				
Farmers Union GTA Cut Bank, Montana 59427								
0-0-60	Cut Bank	3960					60	60.4
11-48-0	Chester	3554	11	11.7	48	48.1		
16-20-0	Cut Bank	3961	16	15.6	20	20.0		
18-46-0	Cut Bank	3962	18	17.8	46	46.5		
21-0-0	Columbus	3857	21	20.8				
Blend	Columbus	3862	21.2	20.4	36.8	38.0		
Farmers Union Oil Company 207 First Avenue South Lewistown, Montana 59457								
0-0-60	Lewistown	3817					60	58.8
0-0-60	Chinook	3545					60	60.4
0-0-60	Chinook	3550					60	60.4
0-45-0	Chinook	3546			45	45.2		
16-20-0	Chinook	3547	16	16.2	20	19.6		
18-46-0	Chinook	3548	18	18.0	46	46.1		
34-0-0	Chinook	3549	34	34.1				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
Grain Growers Glendive, Montana 59330								
Blend	Glendive	3606	23	25.5	23	22.9		
Blend	Glendive	3607	16	13.8	32	26.0		
Greenfields Calgary, Alberta, Canada								
28-0-0	Hingham	3976	28	25.8				
General Mills Choteau, Montana 59422								
0-0-60	Choteau	3916					60	58.8
0-45-0	Choteau	3918			45	46.3		
11-55-0	Choteau	3914	11	11.3	55	55.5		
16-20-0	Choteau	3915	16	16.2	20	20.9		
34-0-0	Choteau	3917	34	34.0				
International Mineral & Chemical IMC Plaza Libertyville, Illinois 60048								
0-46-0	Billings	3668			46	46.7		
Kaiser Chemicals Box 28292 San Francisco, California 94126								
0-0-60	Billings	3846					60	59.6
The Leisure Group, Inc. 1035 Watsoncenter Road Carson, California 90744								
Fish Emulsion	Hamilton	3776	5	5.9	2	1.9	1	1.4
The Chas. H. Lilly Co. 7737 Northeast Kijlingsworth Portland, Oregon 97201								
Liquid Super Rich Plant Food	Hamilton	3773	4	4.2	8	8.0	8	8.9
Tomato & Veg. Food	Hamilton	3771	4	3.8	8	7.6	6	6.7

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
The Chas. H. Lilly Co. (Cont...)								
Rhododendron & Evergreen Food	Hamilton	3770	6	13.2	10	6.8	8	3.4
Ammonium Sulphate	Hamilton	3772	21	20.9				
Deoderized Fish Fert. Emul.	Hamilton	3774	5	5.2	1	1.2	1	1.0
3M Company 3M Center Building 209-BC St. Paul, Minnesota 55102								
Time Release Flower Food	Missoula	3800	6	6.1	12	13.3	6	6.2
Time Release Plant Food	Missoula	3799	12	12.6	6	7.2	6	6.1
Pacific Supply Box 3588 Portland, Oregon 97208								
0-0-60	Shelby	3561					60	61.0
11-48-0	Shelby	3556	11	11.7	48	47.8		
11-48-0	Cut Bank	3576	11	11.2	48	48.1		
11-48-0	Shelby	3965	11	10.7	48	48.5		
11-55-0	Valier	3949	11	11.5	55	55.4		
16-20-0	Red Lodge	3729	16	15.4	20	20.6		
16-20-0	Shelby	3560	16	16.4	20	20.8		
Ammonium Phosphate	Shelby	3966	16	16.2	20	20.4		
Di-Ammonium Phosphate	Shelby	3968	18	17.7	46	46.3		
18-46-0	Reserve	3905	18	17.9	46	47.0		
Di-Ammonium Phosphate	Rudyard	3972	18	17.6	46	46.8		
Ammonium Sulfate	Valier	3945	21	20.7				
32-0-0	Hot Springs	3922	32	30.9				
34-0-0	Shelby	3557	34	34.4				
Ammonium Nitrate	Shelby	3970	34	33.7				
Phillips Petroleum Co. Box 12657 Spokane, Washington 99210								
32-0-0	Flaxville	3705	32	32.1				
32-0-0	Townsend	3757	32	30.4				
Plant Food Center Route #2, Box 80 Post Falls, Idaho 83854								
0-0-60	Edgar	3720					60	60.8

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Plant Food Center (Cont...)								
16-16-16	Missoula	3796	16	16.0	16	15.7	16	16.0
16-20-0-14S	Missoula	3798	16	16.0	20	20.4		
0-44-0	Edgar	3719			44	44.0		
21-0-0	Edgar	3718	21	21.2				
18-46-0	Edgar	3721	18	18.2	46	46.1		
38-14-0	Missoula	3797	28	28.4	14	12		
34-0-0	Edgar	3717	34	34.2				
Ra-Pid-Gro Corporation 88 Ossian Street Dansville, New York 14437								
23-19-17	Billings	3802	23	22.3	19	20.1	17	16.9
Ross Daniels Incorporated P.O. Box 430 West DesMoines, Iowa 50302								
5-25-10	Great Falls	3819	5	5.5	25	36.5	10	11.6
Schultz Company 11730 Northline St. Louis, Missouri								
Schultz Liquid Plant Food	Billings	3801	10	10.7	15	14.4	10	10.2
Selstad Soil Service Route 1 West, Box 43 Great Falls, Montana 59403								
8-27-0	Geraldine	3660	8	8.0	27	29.9		
10-33-0	Geraldine	3935	10	9.9	33	32.1		
Sherritt Fertilizers, Inc. 103 Cascade Plaza Portland, Oregon 97217								
11-48-0	Bridger	3724	11	11.3	48	48.7		
11-48-0	Columbus	3856	11	11.6	48	49.1		
21-0-0	Stevensville	3622	21	21.1				
34-0-0	Stanford	3994	34	34				

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Simplot Soil Builders 2909 South 48th Street West Billings, Montana 59102								
15-15-15	Billings	3673	15	15	15	17.9	15	16.0
J.R. Simplot Company P.O. Box 912 Pocatello, Idaho 83201								
0-0-60	Valier	3562					60	60.4
0-0-60	Stanford	3993					60	61.2
0-45-0	Valier	3569			45	45.1		
0-45-0	Columbus	3858			45	45.2		
0-45-0	Sidney	3897			45	45.0		
0-45-0	Billings	3848			45	45.8		
0-45-0	Deer Lodge	3594			45	45.2		
0-52-0	Billings	3933			52	52.8		
10-34-0	Billings	3850	10	9.8	34	35.2		
11-48-0	Valier	3566	11	11.2	48	48.0		
11-48-0	Valier	3569	11	11.4	48	48.0		
11-48-0	Valier	3948	11	11.1	48	49.0		
11-48-0	Baker	3884	11	11.2	48	48.8		
11-55-0	Billings	3672	11	11.1	55	55.3		
16-20-0	Billings	3671	16	16.0	20	19.8		
16-20-0	Valier	3951	16	15.6	20	21.9		
16-20-0	Billings	3845	16	15.3	20	22.4		
16-20-0	Columbus	3861	16	15.6	20	20.5		
16-20-0	Three Forks	3874	16	16.1	20	20.8		
16-20-0	Dillon	3600	16	16.1	20	20.1		
18-46-0	Dillon	3598	18	16.8	46	30.6		
18-46-0	Three Forks	3876	18	18.0	46	47.1		
18-46-0	Sidney	3898	18	18.0	46	46.1		
18-46-0	Billings	3847	18	18.0	46	46.8		
18-46-0	Stanford	3995	18	17.8	46	46.6		
18-46-0	Billings	3885	18	18.0	46	46.2		
18-46-0	Billings	3669	18	18.1	46	45.2		
18-46-0	Sidney	3896	18	17.9	46	46.9		
18-46-0	Miles City	3791	18	18.1	46	46.6		
18-46-0	Hamilton	3737	18	18.2	46	46.0		
18-46-0	Sidney	3711	18	18.3	46	46.1		
18-46-0	Sidney	3712	18	18.4	46	45.9		
18-46-0	Wolf Point	3710	18	18.1	46	46.2		

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
J.R. Simplot Company (Cont...)								
18-46-0	Sidney	3712	18	18.4	46	45.9		
18-46-0	Wolf Point	3710	18	18.1	46	46.2		
18-46-0	Glasgow	3698	18	18.3	46	46.5		
18-46-0	Rudyard	3584	18	18.0	46	46.3		
18-46-0	Rudyard	3585	18	17.9	46	46.6		
21-0-0	Dillon	3597	21	21.0				
28-0-0	Billings	3849	28	26.7				
34-0-0	Billings	3843	34	33.7				
34-0-0	Dillon	3599	34	33.3				
34-0-0	Columbus	3860	34	33.8				
34-0-0	Three Forks	3877	34	33.4				
34-0-0	Glasgow	3700	34	34.3				
34-0-0	Billings	3667	34	34.0				
34-0-0	Valier	3950	34	34.0				
34-0-0	Moccasin	3986	34	33.8				
34-0-0	Valier	3958	34	33.8				
34-0-0	Glasgow	3906	34	33.9				
34-0-0	Wolf Point	3756	34	34.0				
34-0-0	Geraldine	3661	34	33.9				
34-0-0	Columbus	3715	34	34.0				
34-0-0	Deer Lodge	3595	34	32.57				
34-0-0	Columbus	3715	34	34.0				
Stauffer Chemical Company 636 California Street San Francisco, California 94119								
Pelleted Fertilizer	Hingham	3974	18	17.6	46	46.3		
0-45-0	Dillon	3602			45	45.3		
Stern's Nurseries, Inc. 404 William Street Geneva, New York 14456								
30-10-10	Helena	3777	30	30.2	10	10.1	10	11.1
Stim-U-Plant 2077 Parkwood Avenue Columbus, Ohio 43219								
5-8-7	Billings	3803	5	5.1	8	10.0	7	7.1

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Swift Agricultural Chemicals 4060 East 26th Street Los Angeles, California 90023								
Vigoro Evergreen Food	Butte	3834	5	5.1	9	9.0	9	9.7
Vigoro Tomato Food	Butte	3835	5	6.8	8	10.3	10	5.7
18-4-5	Butte	3833	18	17.6	4	4.6	5	5.9
USS Agri-Chemicals, Division of U.S. Steel Corp. 10 East South Tempel #1250 Salt Lake City, Utah 84133								
0-46-0	Belgrade	3691			46	46.8		
Venturi, Inc. 1610 Rollins Road Burlingame, California 94010								
2-2-1	Great Falls	3818	2	2.5	2	2.3	1	1.9
Western Coop. Fertilizing, Ltd. Calgary, Alberta, Canada								
16-20-0	Cut Bank	3577	16	14.0	20	29.7		
Wycon Chemical Company P.O. Box 1087 Colorado Springs, Colorado 80901								
33.5-0-0	Bridger	3725	33.5	33.2				
34-0-0	Bridger	3931	34	34.1				
Yon Distributors, Inc. Box 1224 Dickinson, North Dakota 58601								
18-26-0	Baker	3603	18	18.1	46	46.2		
18-46-0	Baker	3605	18	18.0	46	46.6		

MICRONUTRIENT ANALYSES

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	MICRONUTRIENT	Claimed	Found
Agriculture Management Services 2222 North River Drive Great Falls, Montana 59404					
12.6-25-10----------	Great Falls	3912	Sulphur	8.7	8.0
Agri Sul Box 188 Mineola, Texas 75773					
0-0-0-90----------	Great Falls	3722	Sulphur	90	60.1
Bay Zinc Company, Division of Bay Chemical Company, Inc. P.O. Box 117 Moxee City, Washington 98936					
Blu-Min-Zinc-18%----------	Warden	3925	Zinc	18	18.9
The Chas. H. Lilly Company 7737 Northeast Killingsworth Portland, Oregon 97201					
Rhododendron & Evergreen Food-----	Hamilton	3770	Calcium	2	3.7
			Magnesium	1	1.0
			Sulphur	2	2.8
			Iron	2	1.4
			Manganese	0.05	.06
			Zinc	0.05	.11
Tomato & Vegetable Food----------	Hamilton	3771	Calcium	5	10.2
			Magnesium	3	4.7
			Sulphur	3.5	3.7
			Iron	2	1.7
			Manganese	0.05	.06
			Zinc	0.05	.09
Liquid Super Rich Plant Food------	Hamilton	3773	Boron	0.02	.002
			Copper	0.001	.12
			Manganese	0.001	.112
			Zinc	0.08	.08
Chevron Chemical 940 Hensley Street Richmond, California 94802					
16-20-0-15S----------	Bozeman	3732	Sulphur	15	14.9

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	MICRONUTRIENT	Claimed	Found
Chevron Chemical (Cont...)					
Ortho Tomato Food	Bozeman	3763	Calcium	4.5	10.9
			Magnesium	2.0	1.6
			Sulphur	5.5	10.2
			Manganese	0.8	.29
			Iron	0.2	1.5
			Zinc	0.09	.57
Ortho Evergreen & Azalea	Bozeman	3765	Boron	0.02	.023
			Molybdenum	0.0008	.004
			Iron	0.40	.39
			Manganese	0.05	.08
			Zinc	0.10	.11
Ortho House Plant Food	Bozeman	3767	Manganese	0.05	.05
			Iron	0.20	.21
			Zinc	0.10	.10
Ortho Gro-Liquid	Bozeman	3768	Iron	0.50	.50
			Zinc	0.1	.10
Ortho General Purpose Plant Food	Bozeman	3762	Calcium	1.5	11.
			Magnesium	1.0	6.2
			Sulphur	4.5	4.5
			Manganese	0.08	.09
			Iron	0.2	.47
			Zinc	0.09	.08
Clouds Peak Products, Incorporated P.O. Box 937 Sheridan, Wyoming 82801					
8-16-8	Billings	3996	Sulphur	8.0	.11
			Iron	1.0	.06
			Zinc	0.9	.002
19-9-9	Billings	3997	Sulphur	6.0	4.1
			Iron	1.0	1.1
Cominco American West Riverside Avenue Spokane, Washington 99201					
21-0-0-24S	Billings	3677	Sulphur	24	23.9

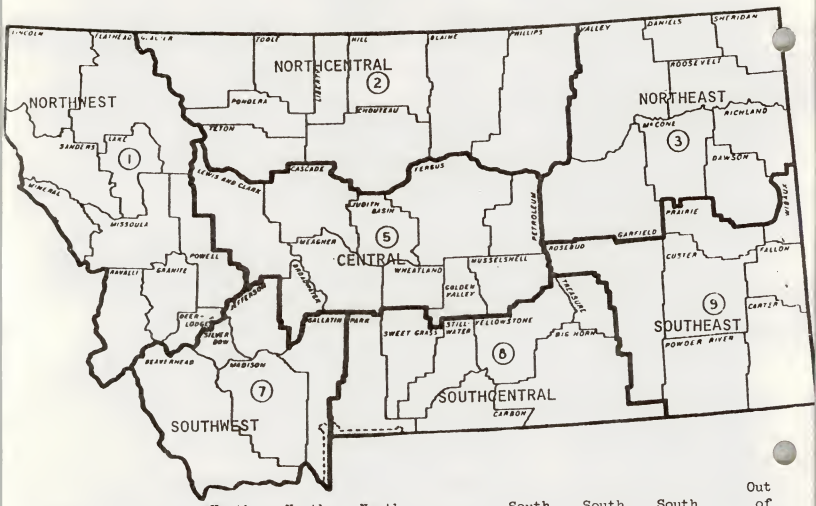
MICRONUTRIENT ANALYSES

NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	MICRONUTRIENT	Claimed	Found
Environmental Management Service 2222 North River Drive Great Falls, Montana 59404					
14-14-14	Great Falls	3626	Sulphur	14	6.6
21-0-16-6	Great Falls	3743	Sulphur	6	6.4
27-0-9-3	Great Falls	3744	Sulphur	3	3.5
Plant Food Center Route #2, Box 80 Post Falls, Idaho 83854					
16-20-0-14S	Missoula	3798	Sulphur	14	14.4
Stern's Nurseries, Inc. 404 William Street [illegible]eva, New York					
Miracid	Helena	3777	Manganese	.05	.32
			Copper	.05	.11
			Iron	.325	.347
			Zinc	.05	.12
Swift's Agricultural Chemicals 4060 East 26 Street Los Angeles, California 90023					
18-4-5-1	Butte	3833	Iron	1.0	2.4

Fertilizer and Fertilizer Material Sold in Montana

By Crop Reporting Districts

Jan-June 1977

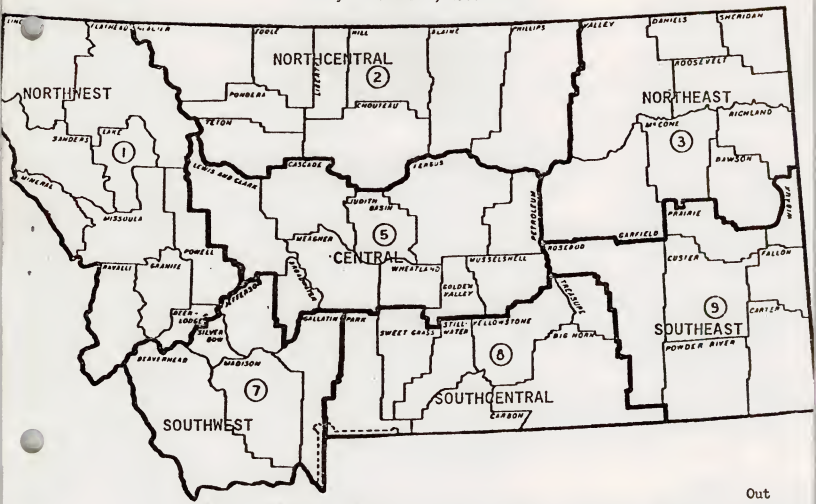


	North West	North Central	North East	Central	South West	South Central	South East	Out of State
Ammonium Nitrate	4,097	12,167	2,846	9,264	5,617	13,474	3,043	754
Urea	92	1,735	1,521	2,121	-	728	385	
Other Nitrogen Sources	1,474	912	491	1,798	1,518	1,973	292	242
P_2O_5 Sources	514	1,670	1,350	1,031	715	1,028	552	
Potash	1,512	3,110	755	1,240	453	1,057	1,248	
18-46-0	1,741	8,498	9,815	5,093	2,430	6,048	4,400	
11-48-0	136	2,734	471	678	700	264	-	
11-55-0	383	3,600	759	5,143	881	583	-	
16-20-0	4,418	952	188	936	1,700	2,213	102	
2-1-0	1,349	423	44	1,267	955	1,017	190	
1-1-0	41	-	213	434	516	242	-	
1-1-1	807	-	-	-	-	-	-	
Miscellaneous	1,111	1,854	1,789	5,092	3,224	2,381	833	1,093
Miscellaneous Liquid	635	1,576	457	1,322	-	378	-	
Gypsum, Lime and Sulphur	615	1,209	148	489	153	582	325	3,713
TOTAL TONS	18,925	40,440	20,847	35,908	18,862	31,966	11,370	5,802

Fertilizer and Fertilizer Material Sold in Montana

By Crop Reporting Districts

July - December, 1977



	North West	North Central	North East	Central	South West	South Central	South East	Out of State
Ammonium Nitrate	375	1863	1108	1676	1185	3198	354	
Urea		388	329	1581		98	11	
Other Nitrogen Sources	227	340	286	335	240	584	31	
P_2O_5 Sources	174	753	1005	167	144	394	195	
Potash	149	643	520	749	153	216	169	
18-46-0	735	7073	6118	4623	838	4472	2164	
11-48-0	945	1325	341	114				
11-55-0	246	4362	1247	3961	476	704		
16-20-0		425		492	821	765	50	
2-1-0	37	57		57	641			
1-1-0			57	139	112			
1-1-1	87							
Miscellaneous	110	191	206	250	931	427	463	817
Miscellaneous Liquid	325	2548	450	946	940	1098		
Gypsum, Lime and Sulphur	228	183		71		365		1308
TOTAL TONS	3648	20,151	11,667	15,161	6,481	12,321	3,446	2,125

MONTANA DEPARTMENT OF AGRICULTURE

Feed and Fertilizer Division

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

1977

	MATERIALS	Jan-June (tons)	July-Dec (tons)	Total (tons)
1.	Anhydrous Ammonia (82-0-0)	1,109	1,240	2,349
2.	Ammonium Nitrate	51,262	9,759	61,021
3.	Ammonium Sulfate (21-0-0)	3,601	1,424	5,025
4.	Urea	6,581	2,456	9,037
5.	Nitrogen Solutions (Aqua Ammonia, Urea Solutions and Urea, Ammonia Nitrate Solutions)	4,001	2,065	6,066
6.	0-45-0, 0-44-0	6,868	2,604	9,472
7.	Phosphoric Acid	232		232
8.	Gypsum, Lime and Sulphur	7,236	2,412	9,648
9.	Potash	9,374	2,599	11,973
10.	Micro Nutrient Materials	177	111	288
	AMMONIATED PHOSPHATES AND MIXTURES			
11.	18-46-0	38,091	26,023	64,114
12.	16-20-0	10,508	3,608	14,116
13.	11-48-0	5,158	1,802	6,960
14.	11-55-0	11,349	11,042	22,391
15.	30-10-0	953		953
16.	21-14-0	2,084	143	2,227
17.	27-12-0, 29-14-0, 28-14-0	3,210	663	3,873
18.	1-1-0 ratios such as 23-23-0	1,468	514	1,982
19.	1-1-1 ratios such as 16-16-16	1,008	170	1,178
20.	Miscellaneous farm grades	14,732	2,015	16,747
21.	Miscellaneous specialty grades	841	550	1,391
22.	Liquid Mixtures	4,255	3,913	8,168
	TOTAL, All Fertilizers and Materials	184,098	75,113	259,211
	TOTAL NITROGEN	38,263	14,165	52,428
	TOTAL P_2O_5	37,125	22,722	59,847
	TOTAL K_2O	6,477	1,737	8,214